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DATE MAILED: 11/06/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	. ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/929,380	08/13/2001	Satyendra Yadav	42390P11648	1017	
8791	7590 11/06/2006		EXAM	EXAMINER .	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD			BULLOCK JR, LEWIS ALEXANDER		
SEVENTH FLOOR		ART UNIT	PAPER NUMBER		
LOS ANGELES, CA 90025-1030			2195		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/929,380	YADAV, SATYENDRA			
Office Action Summary		Examiner	Art Unit			
		Lewis A. Bullock, Jr.	2195			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	e correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION Be(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 11 Au	uaust 2006.				
,		action is non-final.				
3)	Since this application is in condition for allowar		prosecution as to the merits is			
9,0	closed in accordance with the practice under E					
Disposit	ion of Claims					
4)⊠	Claim(s) <u>5-12,32-45 and 65-78</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	Claim(s) <u>32-38 and 65-71</u> is/are allowed.					
6)⊠	Claim(s) <u>5-12,39-45 and 72-78</u> is/are rejected.					
7)	Claim(s) is/are objected to.		•			
8)□	Claim(s) are subject to restriction and/or	election requirement.	•			
Applicat	ion Papers					
9)[The specification is objected to by the Examine	г.				
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	e Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).			
11)[The oath or declaration is objected to by the Ex-	aminer. Note the attached Offic	ce Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:		(a)-(d) or (f).			
	1. Certified copies of the priority documents	•				
	2. Certified copies of the priority documents					
	3. Copies of the certified copies of the prior	·	ved in this National Stage			
	application from the International Bureau	, , , ,				
" 3	See the attached detailed Office action for a list of	of the certified copies not received	ved.			
		•				
Attachmen	t(s)					
_	ce of References Cited (PTO-892)	4) Interview Summa	iry (PTO-413)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date			
· —	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal	r Patent Application			
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5-12, 39-45 and 72-78 are rejected under 35 U.S.C. 103(a) as being unpatentable over SUNG (U.S. Patent 6,226,684) in view of TSUKAKOSHI (EP 0969 630 A1).

As to claim 5, SUNG teaches a system comprising: a system (data center), the system coupled with a network (col. 3, lines 51-53); a number of dispatchers (router) coupled with the system, each of the dispatchers having a local dispatch table (router table) wherein at least two of the dispatchers share a session entry (table entry) identifying a client (client) and a selected server (server) (via the multicast message synchronizing table entries such that any router can send communications to the same server); and a plurality of servers (servers), each of the plurality of servers coupled with each of the number of dispatchers; wherein the system directs each communication received from the network to one of the number of dispatchers, the one dispatcher to determine which of the plurality of servers is to receive the communication (via the router sending a message to one of the servers or a previous selected server as detailed by the IP cache table or routing table) (col. 3, line 51 – col. 4, line 7; see figs. 3 and 4; col. 5, lines 20-58; col. 6, lines 10-30). However, SUNG does not teach that the

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system is a router wherein all communications from clients on the network are received at the router.

TSUKAKOSHI teaches a clustered router that all clients communicate to and comprising a plurality of routers wherein each router shares updated information with the other routers and that the clients have no external view of the plurality of sub-routers (see abstract; pg. 2, paragraph 0008-0012; pg. 3, paragraph 0018-0021). It would be obvious to one of ordinary skill in the art that the data center system of SUNG is the router of TSUKAKOSHI and therefore the routers are updated as indicated by the teachings of SUNG. Therefore, it would be obvious to one of ordinary skill in the art to combine the teachings of SUNG with the teachings of TSUKAKOSHI in order to facilitate network information sharing wherein each router allows network information collected by routing protocols running in a plurality of routers to be shared (pg. 2, paragraph 0009).

As to claim 39, SUNG teaches a method comprising: receiving a packet (message) at a system (data center) coupled with a plurality of dispatchers (routers), the packet (message) including a connection request from a client (client); transmitting the packet from the system (data center) to a first dispatcher (router) of the plurality of dispatchers (routers); selecting a server (server) from a plurality of servers (servers) coupled with the plurality of dispatchers (routers); placing a session entry (table entry) in a local dispatch table (router table) of the first dispatcher (router), the session entry identifying the client (client) and the selected server (server); broadcasting a dispatch

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table update from the first dispatcher (router) to all other dispatchers (routers) of the plurality of dispatchers (via the multicast message to synchronize the tables of all routers), the dispatch table update identifying the client (client) and the selected server (server); transmitting the packet to the selected server (server); receiving a second packet at the system from the client; and transmitting the second packet from the system to a second dispatcher of the plurality of dispatchers, the second dispatcher to search a local dispatch table of the second dispatcher to identify the selected server and transmit the second packet to the selected server (via establishing a new second communication with the data center such that the router directs the second request to the same server) (see figs. 3 and 4; col. 5, lines 20-58; col. 6, lines 10-30; col. 4, line 49-col. 5, line 33). However, SUNG does not teach that the system is a router.

TSUKAKOSHI teaches a clustered router that all clients communicate to and comprising a plurality of routers wherein each router shares updated information with the other routers and that the clients have no external view of the plurality of sub-routers (see abstract; pg. 2, paragraph 0008-0012; pg. 3, paragraph 0018-0021). It would be obvious to one of ordinary skill in the art that the data center system of SUNG is the router of TSUKAKOSHI and therefore the routers are updated as indicated by the teachings of SUNG. Therefore, it would be obvious to one of ordinary skill in the art to combine the teachings of SUNG with the teachings of TSUKAKOSHI in order to facilitate network information sharing wherein each router allows network information collected by routing protocols running in a plurality of routers to be shared (pg. 2, paragraph 0009).

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As to claim 40, SUNG teaches selecting a communication link from a plurality of communication links (via selecting a router), each of the plurality of communication links coupling one of the plurality of dispatchers (router) with a port of the system (data center); and transmitting the packet (message) over the selected communication link to the first dispatcher (router) (see figs. 3 and 4; col. 5, lines 20-58; col. 6, lines 10-30).

As to claim 41, SUNG teaches randomly selecting the communication link from the plurality of communication links (see figs. 3 and 4; col. 5, lines 20-58; col. 6, lines 10-30).

As to claim 42, SUNG teaches determining a load on each of the plurality of servers (servers); and selecting the server at least partially in response to the load on the server (server) (col. 10, lines 6-21; col. 9, lines 40-53).

As to claim 44, SUNG teaches the first dispatcher and the second dispatcher comprise the same dispatcher of the plurality of dispatchers (via the same or different dispatchers both having the capability of sending connection request to the same server based on the table entries) (see figs. 3 and 4; col. 5, lines 20-58; col. 6, lines 10-30; col. 4, line 49-col. 5, line 33).

As to claims 72-75 and 77, refer to claims 39-42 and 44 for rejection.

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As to claims 9 and 10, SUNG teaches a number of dispatchers are coupled with a port of the system (via the routers being linked to the data center such that when it receives a message it is sent to a router) and substantially discloses the invention above. However, SUNG does not teach the router exhibiting port trunking by having identical network addresses.

TSUKAKOSHI teaches the router (router device / cluster-type router) exhibiting port trunking and the first dispatcher (router node) and second dispatcher (router node) exhibiting identical network addresses (no need to assign sub-net addresses) (pg. 8, paragraph 0089-0091) wherein each router device distributes update information to other router devices (see abstract; pg. 2, paragraph 0008-0012; pg. 3, paragraph 0018-0021).

As to claims 6-8, SUNG teaches a network with multiple routers for communicating a client to a server (col. 4, lines 42-48). However, SUNG does not teach that the network is a system area network or a LAN, WAN, or MAN. Official Notice is taken in that a system area network exhibiting InfiniBand architecture, LAN, WAN, and MAN are well known in the art and therefore would be obvious in view of the teachings of SUNG in order to facilitate the reconnection of clients to respective servers in a system area network, LAN, WAN, or MAN environment.

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As to claims 11 and 12, SUNG teaches selecting the server at least partially in

response to the identified application (via selecting the server based on the content

groups cached by the server) (col. 10, lines 6-22). It would be obvious to one skilled in

the art that there must exist different content group, i.e. applications, since the servers

are selected based on the content groups.

As to claim 43, SUNG teaches selecting the server at least partially in response

to the identified application (via selecting the server based on the content groups

cached by the server) (col. 10, lines 6-22). It would be obvious to one skilled in the art

that the content group, i.e. application, of the packet must be identified in order to select

a server based on the content group.

As to claim 45, SUNG teaches routing a packet from the dispatcher (router) to

the selected server (server) (see figs. 3 and 4; col. 5, lines 20-58; col. 6, lines 10-30). It

would be obvious to one of ordinary skill in the art that in order to route the request one

would have to change the network address of the message from the dispatcher set by

the client to the server set by the dispatcher.

As to claims 76 and 78, refer to claims 43 and 45 for rejection.

Allowable Subject Matter

3. Claims 32-38 and 65-71 are allowed.

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Response to Arguments

Applicant's arguments filed August 11, 2006 have been fully considered but they 4. are not persuasive. Applicant argues that the combination of Sung or Tsukakoshi do not teach a system or method including a router that is coupled with a number of dispatchers which in turn, are coupled with a plurality of servers, wherein the router is coupled with a network (or in communication with the network) and all communications from clients on the network are received at the router. Applicant states that clustered router includes a number of routers and a router switch; however, the router switch is a router-to-router switch providing connections between the routers. The router switch is not coupled with an external network and is not the receiving point for communications from clients on the network. The examiner disagrees. Tsukakoshi teaches the clustered router is appears to the communication terminals and the other routers as if it was a single network forwarding apparatus (col. 4, paragraph 0021). Tsukakoshi further teaches that communication between the communication terminals via the clustered router is performed the same way communication between the communication ternals via a single router is performed (pg. 4, paragraph 0022). Therefore, Tsukakoshi teaches a plurality of clients that send their communication to the router (clustered router). The cluster router is made up of other routers wherein one router forwards the request to a requested entity and updates its back-up routers of the update to the forwarding table of the router. Sung teaches a data center comprising a plurality of routers that performs updates among the set of routers when one's routing table is

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updated. Therefore, the combination adequately teaches a system or method including a router (clustered router / data center) that is coupled with a number of dispatchers (sub-routers / routers) which in turn, are coupled with a plurality of servers (servers / requested entity, wherein the router is coupled with a network (or in communication with the network) and all communications from clients on the network are received at the router. Therefore, since the combination meets the language of the claims as presented the rejection is maintained above.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis A. Bullock, Jr. whose telephone number is (571)

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272-3759. The examiner can normally be reached on Monday-Friday, 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

November 2, 2006

LEWIS A. BULLOCK, JR.